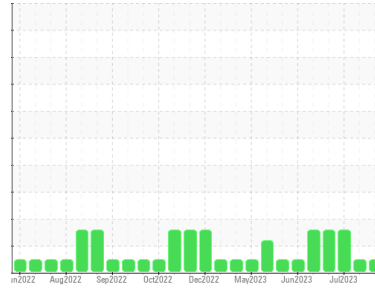




Machine Id  
**JENBACHER X237 (S/N 1351125)**

Component  
**Circulating Natural Gas Engine**

Fluid  
**PETRO CANADA SENTRON CG 40 (600 LTR)**



**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor.

**Wear**  
All component wear rates are normal.

**Contamination**  
There is no indication of any contamination in the oil.

**Fluid Condition**  
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0070714</b>	PC0070716	PC0070713
Sample Date	Client Info		<b>03 Oct 2023</b>	22 Sep 2023	24 Jul 2023
Machine Age	hrs	Client Info	<b>34266</b>	34003	33529
Oil Age	hrs	Client Info	<b>546</b>	283	1863
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>20	<b>2</b>	2	3
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	1	3
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	3
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	<b>5</b>	5	2
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	2	<b>1</b>	1	2
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	9	<b>20</b>	19	21
Calcium	ppm	ASTM D5185(m)	2712	<b>2851</b>	2721	2959
Phosphorus	ppm	ASTM D5185(m)	292	<b>281</b>	275	300
Zinc	ppm	ASTM D5185(m)	342	<b>334</b>	322	347
Sulfur	ppm	ASTM D5185(m)	2575	<b>2606</b>	2548	2606
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

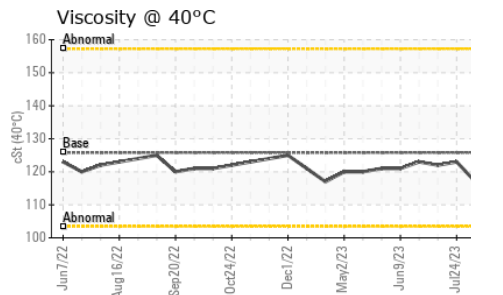
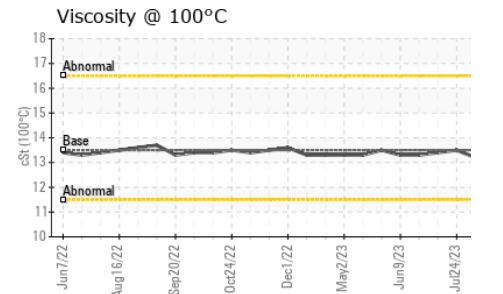
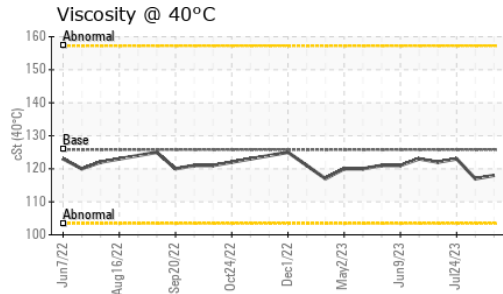
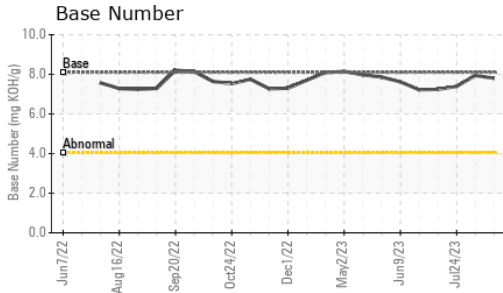
**CONTAMINANTS**

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>100	<b>62</b>	35	▲ 136
Sodium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.98	<b>1.14</b>	0.96	2.15
Base Number (BN)	mg KOH/g	ASTM D2896*	8.1	<b>7.80</b>	7.94	7.39
i-pH	Scale 0-14	ASTM D7946*	<4.5	<b>5.51</b>	5.95	5.00

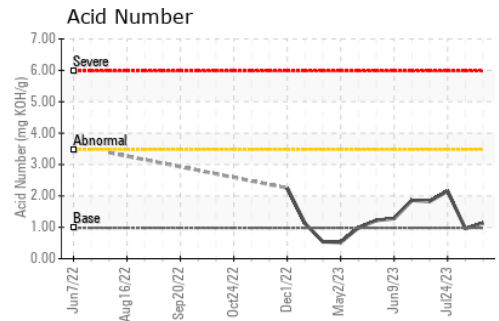
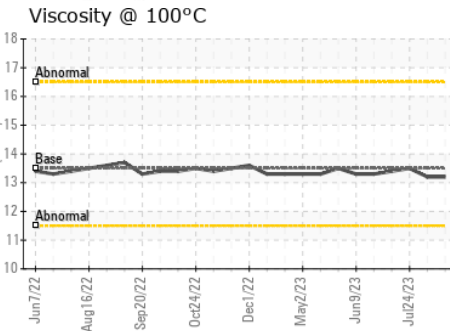
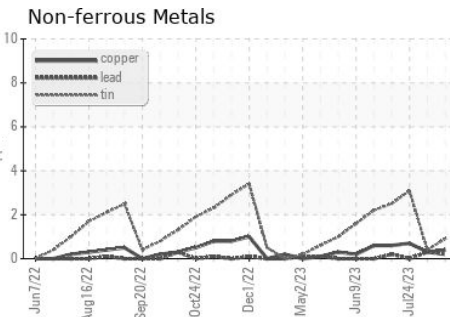
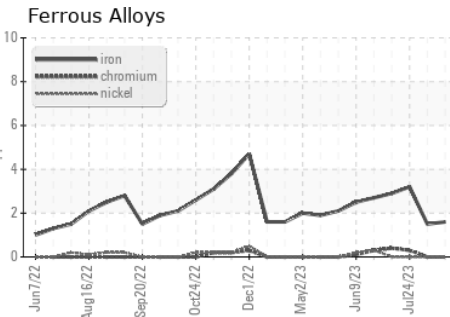
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	125.8	118	117
Visc @ 100°C	cSt	ASTM D7279(m)	13.5	13.2	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	105	106	107

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CHALEUR REGIONAL SERVICE COMMISSION  
**Sample No.** : PC0070714 **Received** : 06 Oct 2023  
**Lab Number** : 02587620 **Diagnosed** : 11 Oct 2023  
**Unique Number** : 5656686 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: i-pH, KV40, VI )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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